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Alfred Staab      Catherine Rapelje  
Paul Rupp      Peter Valsecchi, Jr.

**Village Administrator**  
Maria Alfano-Hardy

**Water Superintendent**  
Stephen Siegel

# Inc. Village of Bayville

## 2010 Drinking Water Quality Report

Public Water Supply Identification No.: 2902816

### ANNUAL WATER SUPPLY REPORT

May 2011

The Inc. Village of Bayville is pleased to present to you this year's Water Quality Report. The report is required to be delivered to all residents of our Village in compliance with Federal and State regulations. Our constant goal is to provide you with a safe and dependable supply of drinking water every day. We also want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. The Board of Trustees and the Village Water Department are committed to ensuring that you and your family receive the highest quality water.

#### SOURCE OF OUR WATER

The source of water for the Village is groundwater pumped from three (3) wells located throughout the Village that are drilled into the Lloyd aquifer beneath Long Island, as shown on the adjacent figure. The water quality of the aquifer is good to excellent.

The population served by the Inc. Village of Bayville during 2010 was 7,800. The total amount of water withdrawn from the aquifer in 2010 was 352.4 million gallons, of which approximately 94 percent was billed directly to consumers. The unbilled water was utilized for miscellaneous tasks such as fire fighting, hydrant flushing, system losses, and water use at the water pump station.

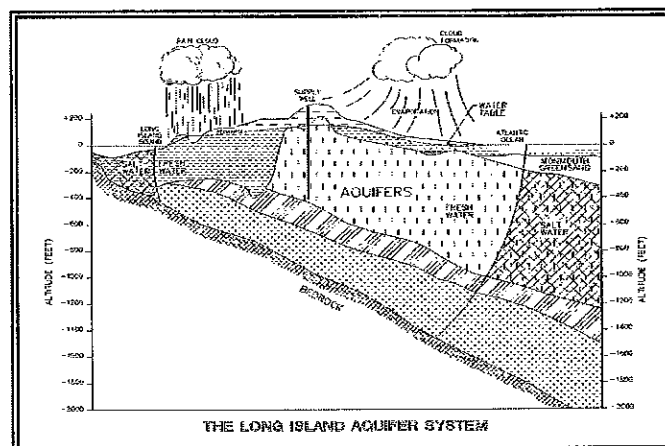
#### COST OF WATER

The Village utilizes a step billing schedule as presented below with the average consumer being billed at \$1.65/1000 gallons.

#### Bi-Annual Water Rates

| <u>Consumption</u> | <u>Charges</u>          |
|--------------------|-------------------------|
| First 10,000       | \$50.00 minimum         |
| 10,001 – 70,000    | \$1.65/thousand gallons |
| 70,001 – 135,000   | \$2.20/thousand gallons |
| 135,001 – 205,000  | \$2.75/thousand gallons |
| Over 205,000       | \$3.30/thousand gallons |

We are pleased to report that our drinking water is safe and meets all Federal and State requirements. If you have any questions about this report or concerning your water utility, please contact Water Superintendent Stephen Siegel at the Village at (516) 628-1439, ext. 19 or the Nassau County Department of Health at (516) 227-9692. We want our valued customers to be informed about our water system. If you want to learn more, please attend any of our regularly scheduled Village Board meetings. They are normally held on the fourth Monday of each month at 7:30 p.m. at the Village Hall.



The Inc. Village of Bayville routinely monitors for different parameters and contaminants in your drinking water as required by Federal and State laws. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. It's important to remember that the presence of these constituents does not pose a health risk. For more information on contamination and potential health risks, please contact the USEPA Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to disease causing microorganisms or pathogens in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections. These people should seek advice from their health care provider about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium*, *Giardia* and other microbial pathogens are available from the Safe Drinking Water Hotline (800-426-4791).

### **WATER CONSERVATION**

The underground water system of Long Island has more than enough water for present water demands. However, saving water will ensure that our future generations will always have a safe and abundant water supply.

In 2010, the Inc. Village of Bayville continued to implement a water conservation program in order to minimize any unnecessary water use. The pumpage for 2010 was approximately 15.6 percent more than in 2009. This can be attributed to the hotter and drier weather conditions that occurred in 2010 compared to 2009.

Residents of the Village can also implement their own water conservation measures such as retrofitting plumbing fixtures with flow restrictors, modifying automatic lawn sprinklers to include rain sensors, repairing leaks in the home, installing water conservation fixtures/appliances and maintaining a daily awareness of water conservation in their

personal habits. In addition, Nassau County Lawn Sprinkler Regulations are still in effect as follows:

- All water sprinkling is prohibited between 10 a.m. and 4:00 p.m.
- Even numbered addresses are allowed to sprinkle on even-numbered dates during the prescribed hours and odd-numbered addresses are allowed to sprinkle on odd-numbered dates during the prescribed hours.
- County law enforcement officers will assist water purveyors in enforcing the regulations through the issuance of a summons which will result in a fine.

Besides protecting our precious underground water supply, water conservation will produce a cost savings to the consumer in terms of both water and energy bills (hot water).

### **WATER TREATMENT**

The Inc. Village of Bayville provides treatment at all wells to improve the quality of the water pumped prior to distribution to the consumer. The pH of the pumped water is adjusted upward to reduce corrosive action between the water and water mains and in-house plumbing by the addition of sodium hydroxide. The Village adds a slight amount of chlorine to the water as a disinfecting agent to prevent the growth of bacteria in the distribution system.

### **SOURCE WATER ASSESSMENT**

The NYSDOH, with assistance from the local health department, has completed a source water assessment for this system, based on available information. Possible and actual threats to this drinking water source were evaluated. The source water assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how rapidly contaminants can move through the subsurface to the wells. The susceptibility of a water supply well to contamination is dependent upon both the presence of potential sources of contamination within the well's contributing area and the likelihood that the contaminant can travel through the environment to reach the well. The susceptibility rating is an estimate of the potential for contamination of the source water, it does not mean that the water delivered to consumers is, or will become contaminated. See the section entitled "Water Quality" for a list of the contaminants that have been detected. The source

# INC. VILLAGE OF BAYVILLE

## 2010 WATER QUALITY REPORT

### TABLE OF DETECTED PARAMETERS

| Contaminants                         | Violation (Yes/No) | Date of Sample | Level Detected (Range)   | Unit Measurement | MCLG | Regulatory Limit (MCL or AL) | Likely Source of Contaminant   |
|--------------------------------------|--------------------|----------------|--------------------------|------------------|------|------------------------------|--|
| <b>Inorganic Contaminants</b>        |                    |                |                          |                  |      |                              |  |
| Copper                               | No                 | Aug. 2008      | ND - 0.02 <sup>(1)</sup> | mg/l             | 1.3  | AL = 1.3                     | Corrosion of household plumbing; Erosion of natural deposits         |
| Lead                                 | No                 | Aug. 2008      | ND - >1.0 <sup>(1)</sup> | ug/l             | 0    | AL = 15                      | Corrosion of household plumbing systems; Erosion of natural deposits |
| Sodium                               | No                 | 12/20/10       | 1.8 - 10.3               | mg/l             | n/a  | No MCL <sup>(2)</sup>        | Naturally occurring  |
| Chloride                             | No                 | 12/20/10       | 3.9 - 4.3                | mg/l             | n/a  | MCL = 250                    | Naturally occurring  |
| Nitrate                              | No                 | 12/20/10       | ND - 0.7                 | mg/l             | 10   | MCL = 10                     | Runoff from fertilizer and leaching from septic tanks and sewage     |
| Magnesium                            | No                 | 12/20/10       | 1.1 - 1.2                | mg/l             | n/a  | NONE                         | Naturally occurring  |
| Calcium                              | No                 | 12/20/10       | 2.9 - 3.1                | mg/l             | n/a  | NONE                         | Naturally occurring  |
| Fluoride                             | No                 | --             | ND                       | mg/l             | n/a  | MCL = 2.2                    | Naturally occurring  |
| <b>Radiological</b>                  |                    |                |                          |                  |      |                              |  |
| Gross Alpha                          | No                 | 12/29/10       | 0.1 - 1.1                | pci/L            | --   | MCL = 15 pci/L               | Naturally occurring  |
| Radium 228                           | No                 | 12/29/10       | 0.7-1.1                  | pci/L            | --   | No MCL                       | Naturally occurring  |
| <b>Volatile Organic Contaminants</b> |                    |                |                          |                  |      |                              |  |
| Total Trihalomethanes (TTHMs)        | No                 | --             | ND                       | ug/l             | --   | MCL = 80                     | Disinfection By-Products   |

#### Definitions:

**Maximum Contaminant Level (MCL)** - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible.

**Maximum Contaminant Level Goal (MCLG)** - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

**Action Level (AL)** - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

**Milligrams per liter (mg/l)** - Corresponds to one part of liquid in one million parts of liquid (parts per million - ppm).

**Micrograms per liter (ug/l)** - Corresponds to one part of liquid in one billion parts of liquid (parts per billion - ppb).

**pCi/L** - pico Curies per Liter is a measure of radioactivity in water.

**Non-Detects (ND)** - Laboratory analysis indicates that the constituent is not present.

<sup>(1)</sup> - During 2008 we collected and analyzed 20 samples for lead and copper. The 90% percentile level is presented in the table. The action levels for copper was not exceeded at any site tested. The action level for lead was only exceeded at one site. Resampling will be required in 2011.

<sup>(2)</sup> - No MCL has been established for sodium. However, 20 mg/l is a recommended guideline for people on high restricted sodium diets and 270 mg/l for those on moderate sodium diets.

INCORPORATED VILLAGE OF BAYVILLE  
34 School Street  
Bayville, New York 11709

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water assessments provide resource managers with additional information for protecting source waters into the future.

Our drinking water is derived from three (3) wells. The source water assessment has rated all of the wells as having a low susceptibility to industrial solvents and nitrates. The low susceptibility is due primarily due to the deep depth of the wells. A copy of the assessment, including a map of the assessment area, can be obtained by contacting the Village Office.

**WATER QUALITY**

In accordance with State regulations, the Village of Bayville routinely monitors your drinking water for numerous parameters. We test your drinking water for coliform bacteria, turbidity, inorganic contaminants, lead and copper, nitrate, volatile organic contaminants, total trihalomethanes and synthetic organic contaminants. Over 135 separate parameters are tested for in each of our wells numerous times per year. The table presented on page 3 depicts which parameters or contaminants were detected in your drinking water. It should be noted that many of these parameters are

naturally found in all Long Island drinking water and do not pose any adverse health affects.

Copies of a Supplemental Data Package, which includes the water quality data for each of our supply wells utilized during 2010, are available at the Village Hall located at 34 School Street, Bayville, New York and the Bayville Public Library.

We at Inc. Village of Bayville work around the clock to provide top quality water to every tap throughout the community. We ask that all our customers help us protect our water resources, which are the heart of our community, our way of life and our children's future.